

CLAIMS:

1. An information carrier (1) provided with
a storage unit (9),

an integrated circuit (10), and

5 a first (31) and a second coupling element (32) for the transfer of data and energy between a
base station (50) and the integrated circuit (10),

which first and second coupling element (31, 32) in the operational state are each coupled to
both the base station (50) and the integrated circuit (10),

and which coupling elements (31, 32) are coupled contactlessly to the base station (50), while
the first coupling element (31) is coupled to the integrated circuit (10) by capacitive coupling.

10 2. An information carrier (1) as claimed in claim 1, characterized in that the first
(31) and the second coupling element (32) are coupled to the base station (50) by means of
capacitive coupling.

15 3. An information carrier (1) as claimed in claim 1, characterized in that the first
(31) and the second coupling element (32) are coupled to the base station (50) by means of
inductive coupling, for which purpose the first coupling element (31) is at least partly
spiralizing in shape, and the second coupling element (32) is in electrical contact with the first.

20 4. An information carrier (1) as claimed in claim 1, 2, or 3, characterized in that
the second coupling element (32) is coupled to the integrated circuit (10) by means of
capacitive coupling.

25 5. An information carrier as claimed in claim 1, 2, or 3, characterized in that the
information carrier (1) is constructed as a disc, and in that information stored in the storage
unit (9) is optically readable.

6. An information carrier as claimed in claim 5, characterized in that the disc
comprises:

- an information-carrying layer (3) provided with the storage unit (9),
- a metal layer (4) serving as one of the coupling elements,
- a protective layer of electrically insulating material (2), and
- a layer (22) of electrically insulating material serving as the other coupling element,
5 which layer is electrically insulated from the metal layer (4),

wherein the integrated circuit (10) is present between the metal layer (4) and the layer (2) of electrically insulating material.

7. An information carrier as claimed in claim 6, characterized in that

10 an inner, an intermediate, and an outer ring are present on the disc, which rings are concentric,

the metal layer (4) is present in the intermediate and the outer ring, and

the layer of electrically conductive material (22) is present in the inner and the intermediate ring.

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8. An information carrier as claimed in claim 5, characterized in that the disc comprises an inner ring and an outer ring of conductive material, which inner ring is one of the coupling elements (31, 32), while the outer ring is the other coupling element (32, 31).

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9. An information carrier as claimed in claim 6 or 8, characterized in that the conductive material is provided in the form of a conductive ink.

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10. An apparatus comprising

a device for reading out information from the storage unit (9) of an information carrier (1) as claimed in claim 2, and

a base station (50) with a first and a second capacitor plate (54, 55) for the transfer of data and energy from and to the integrated circuit (10), by means of which capacitor plates (54, 55) the base station in the operational state is coupled to the first and the second coupling element (31, 32) by means of capacitive coupling.

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11. An apparatus as claimed in claim 10, characterized in that

the apparatus is suitable for use with the information carrier (1) as claimed in claim 5,

the information carrier (1) is clamped in between a carrier body (51) and a compression body (52) in operational state,

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the first capacitor plate (54) forms part of the carrier body (51), and
the second capacitor plate (55) forms part of the compression body (52).

12. An apparatus as claimed in claim 10, characterized in that
5 the apparatus is provided with a first carrier body (31) for the information carrier as claimed
in claim 5,
the carrier body (31) has an inner ring and an outer ring, which rings are concentric,
the first capacitor plate (54) lies inside the inner ring, and
the second capacitor plate (55) lies inside the outer ring.

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13. A system of
an information carrier (1) provided with a storage unit (9), an integrated circuit (10), and a
first and a second coupling element (31, 32), and
an apparatus (40) provided with a device (60) for reading information from the storage unit
15 (9) of the information carrier (1), further comprising a base station (50) with a first and a
second capacitor plate (54, 55) for the transfer of data and energy from and to the integrated
circuit (10) of the information carrier (1),
which first and second coupling element (31, 32) in the operational state are each coupled to
both the base station (50) and the integrated circuit (10),
20 wherein said coupling elements (31, 32) are coupled to the base station (50) by means of
capacitive coupling, and wherein the first coupling element (31) is coupled to the integrated
circuit (10) by means of capacitive coupling.

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14. A substrate (21) provided with a layer of conductive ink (22) and a glue layer
25 (23), characterized in that
the substrate (21) is suitable for fastening to a disc-shaped information carrier (1) provided
with a hole (5) centrally situated in the information carrier (1) and having a diameter, and
the substrate (21) is provided with a hole (25) having a diameter which is at least equal to the
diameter of the hole (5) in the information carrier (1).

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